

Weekly COVID-19 Update in Montana (as of 6/10/2022)

This report is a weekly snapshot of COVID-19 activity in Montana. Data are analyzed based on information available as of June 10, 2022. Data are provisional and expected to change as more information is received.

Case Data

Table 1. Summary of COVID-19 Activity – Montana, as of 6/10/2022

	TOTAL	RECENT WEEK	PERCENT CHANGE FROM PREVIOUS WEEK
REPORTED CASES	283,392	2,040	+12%
LABORATORY TESTS	2,851,500	13,503	+8%
HOSPITALIZATIONS	12,231	63	+31%
DEATHS	3,435	3	-73%**

**a COVID death reconciliation was sent out the week ending 5/20/22, resulting in an increase in the number of COVID deaths reported in previous weeks

Figure 1. COVID-19 Cases and Hospitalizations over Time – Montana, as of 6/10/2022

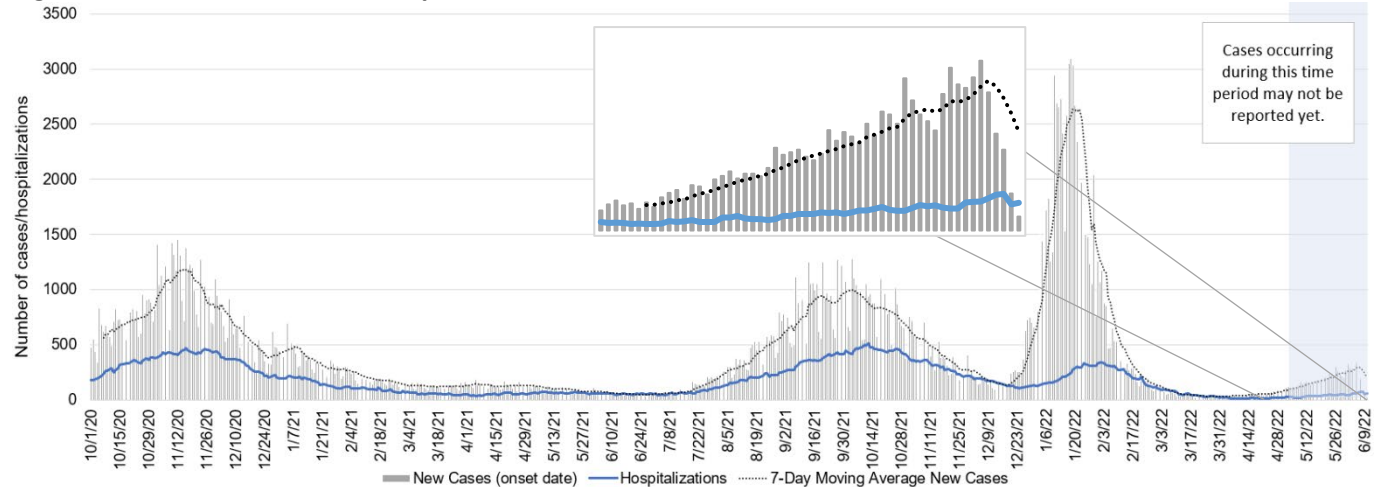


Figure 2: Status of Acute Care and ICU Beds – Hospitals in Montana, 6/1-6/14 2022

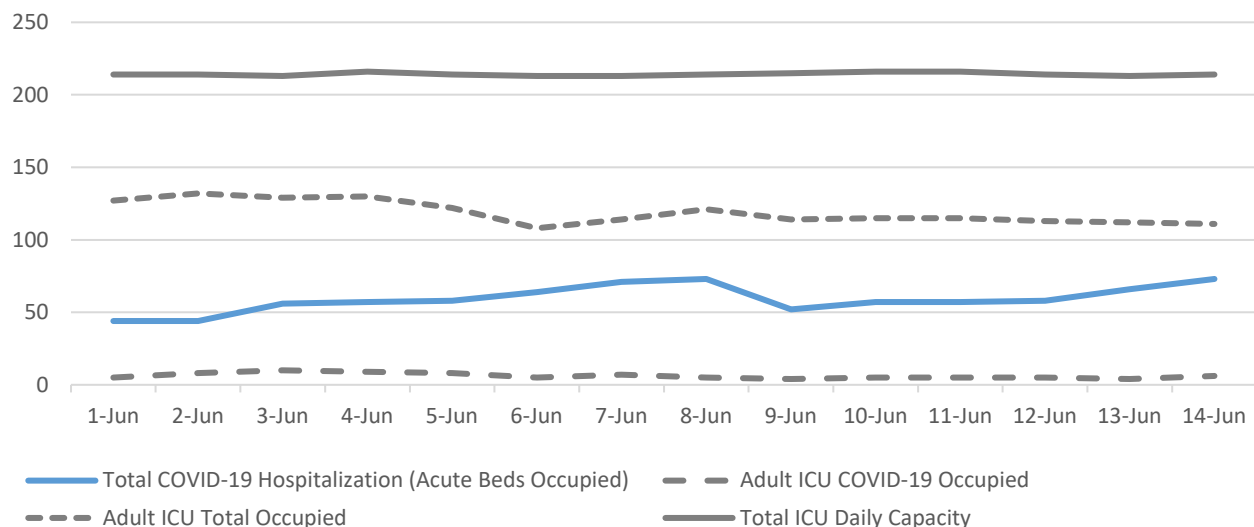
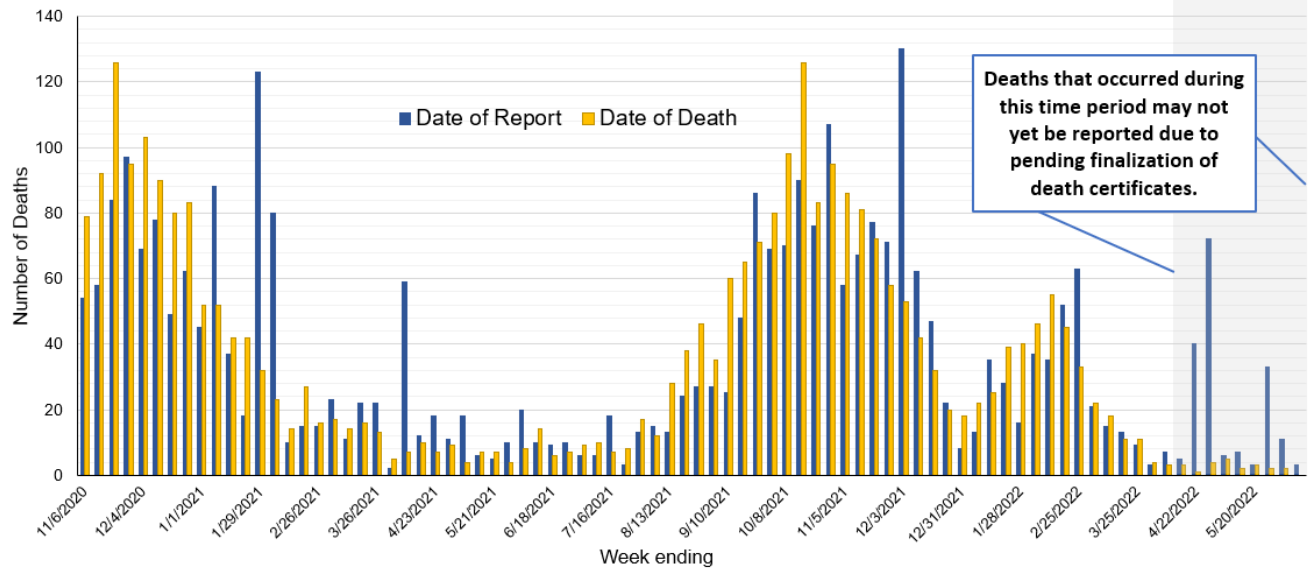


Figure 3. COVID-19 Deaths by Report Date and Date of Death – Montana, 11/1/2020 – 6/10/2022



Vaccine Data

Montana began vaccinating individuals in mid-December 2020 with a phased process: Phase 1A on December 14, 2020, Phase 1B on January 19, 2021, and Phase 1B+ on March 8, 2021. Vaccinations were opened to all Montanans age 16+ on April 1, 2021 and expanded to all Montanans age 12+ on May 10th, 2021. Most recently, the Pfizer vaccine was approved for the 5-11 year old age group on October 29th, 2021. To date, 1,492,127 doses have been given across the state and 56% of the eligible population is considered fully vaccinated (table 2).

Table 2: COVID-19 Vaccine Doses Administered for the 5 and older population – Montana, as of 6/10/2022

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 5/27	WEEK ENDING 6/3	WEEK ENDING 6/10*
TOTAL DOSES ADMINISTERED	1,492,127		5,664	4,307	4,328
DOSE 1 ADMINISTERED	637,436	62%	550	499	441
FULLY VACCINATED INDIVIDUALS	566,822	56%	500	402	430

*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

Figure 4. COVID-19 Vaccine Doses Administered by Week, 5+ Years – Montana, as of 6/10/2022

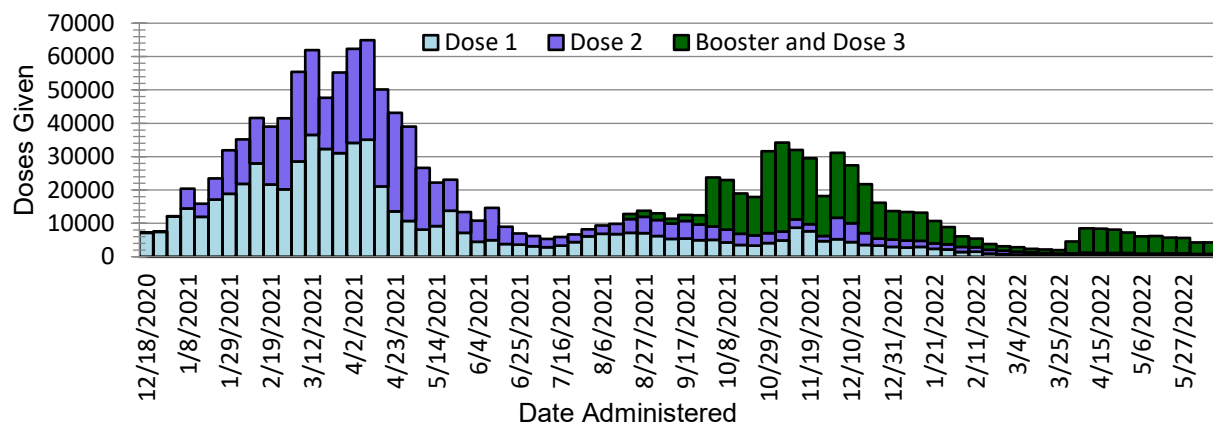
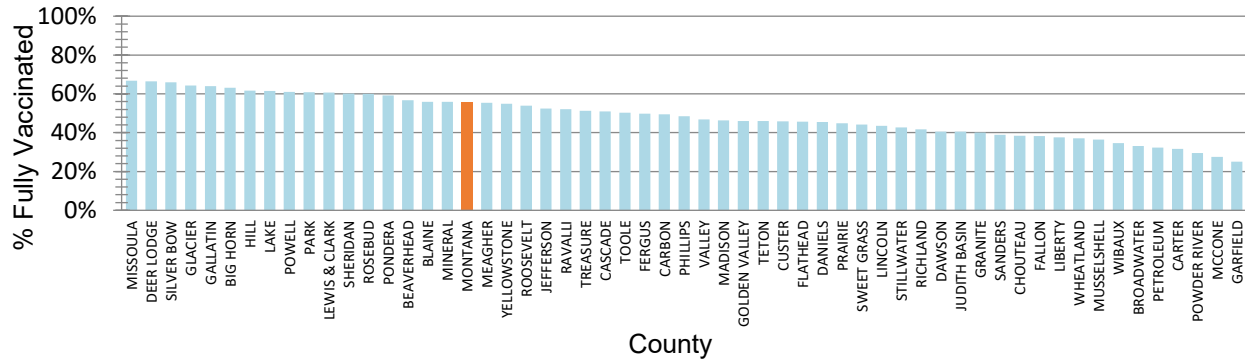


Figure 5. Percent of Eligible Montanans (5+ years) Fully Vaccinated by County – Montana, 6/10/2022



Variant and Breakthrough Cases

Figure 6 displays the number of Montana samples sequenced by week. Figure 7 displays the percentage of the most common SARS-CoV-2 lineages detected out of all Montana samples sequenced by week. There have been 17,038 samples from Montana that have been sequenced with their lineages reported to GISAID since September 2020. **Please note the relatively small number of samples sequenced in recent weeks limits interpretation of the available variant sequencing data.**

As of June 11, there have been 4,543 cases across Montana infected with Omicron variants. DPHHS is monitoring sublineages of the Omicron variant, including BA.2 (pink, below) which was first identified in Montana on January 30, 2022, BA.2.12.1 (gold, below) first identified in Montana on April 19, 2022, BA.4 (light blue, below) first identified in Montana on May 4, 2022, and BA.5 (light orange, below) first identified in Montana on May 31, 2022. There have been 233 sequences reported to GISAID between May 1- June 11, 2022– 120 (52%) BA.2, 103 (44%) BA.2.12.1, 5 (2%) BA.4, 4(2%) BA.5, and 1(<1%) BA.1. Please note that only 34 positive samples were sequenced and reported to GISAID the week ending June 11, 2022; 10 were BA.2, 19 were BA.2.12.1, 3 were BA.4, and 2 were BA.5.

Figure 6. Number of COVID-19 samples sequenced by collection date, Montana 6/11/2022

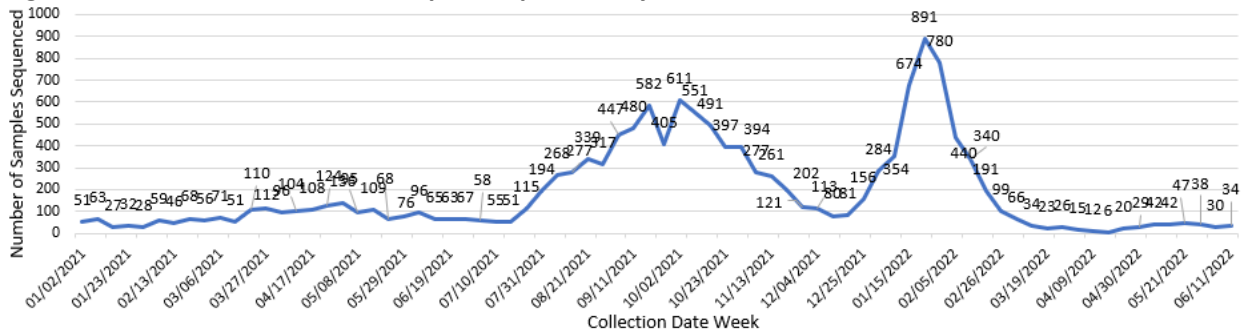
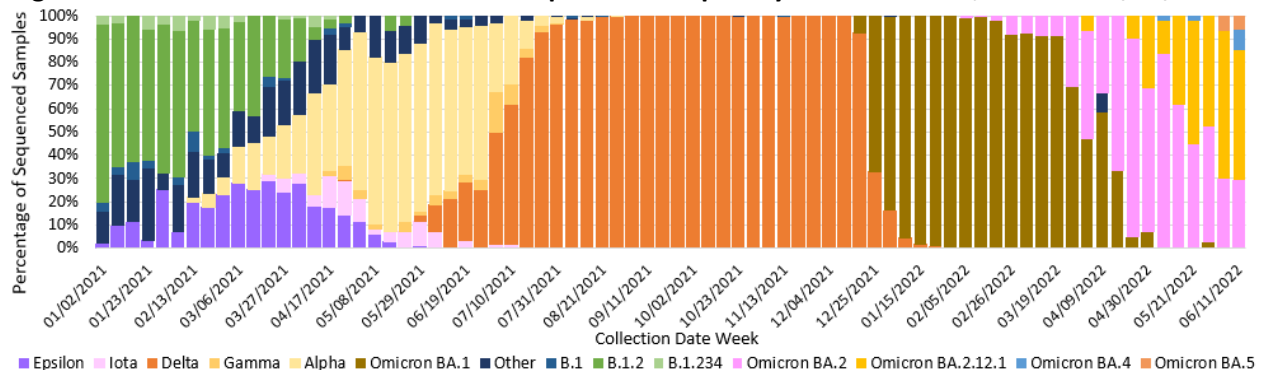


Figure 7. Percent of COVID-19 variants in sequenced samples by collection date, Montana 6/11/2022



A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 specimen collected ≥ 14 days after completing the primary COVID-19 vaccine series of an FDA-authorized COVID-19 vaccine. Studies show that protection from COVID vaccination decreases over time; in response, the CDC has recommended booster doses for eligible populations to protect against waning immunity. As of June 14th, 2022, Montana reports 47,996 cases of confirmed breakthrough disease, which includes 1,617 hospitalizations and 440 deaths. CDC data from March 2022 show that unvaccinated individuals aged 12 years and older were 1.9 times more likely to become infected with COVID-19, compared to fully vaccinated individuals in the same age group with a booster dose. Additionally, unvaccinated individuals 12 and older had 17 times the risk of dying from COVID-19 compared to fully vaccinated individuals in the same age group with booster doses.¹

Hospitalizations and Deaths and Vaccination Status

COVID-19-related hospitalizations and deaths were analyzed between **April 1, 2021 and June 10, 2022** to review vaccination status. Since the beginning of April 2021, 78% of Montanans who were hospitalized and 76% of those who died were unvaccinated at the time of infection (Table 3). Of the 7,374 individuals who were hospitalized during this time period, 150 (2%) were <18 years old, 1,005 (14%) were 18 to 44 years old, 2,367 (32%) were 45 to 64 years old and 3,852 (52%) were ≥ 65 years old.

Additionally, COVID-19-related hospitalization and death data from **April 16 – June 10, 2022** (last 8 weeks) were analyzed to review vaccination status. Forty-six percent of Montanans who were hospitalized and 42% of those who died had not received a COVID-19 vaccine (Table 4)[†]. Of the 300 individuals who were hospitalized during this time period, 13 (4%) were <18 years old, 43 (14%) were 18 to 44 years old, 54 (18%) were 45 to 64 years old and 190 (63%) were ≥ 65 years old.

Table 3. Vaccination status of COVID-19 hospitalizations and deaths – April 1, 2021 to June 10, 2022

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	7,374	1,836
UNVACCINATED	5,766 (78%)	1,400 (76%)
VACCINATED (BREAKTHROUGH CASE)	1,608 (22%)	436 (24%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-102 (63)	<1-103 (71)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	7-103 (73)	20-101 (81)

Table 4. Vaccination status of COVID-19 hospitalizations and deaths – April 16 to June 10, 2022

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	300	19
UNVACCINATED	139 (46%)	8 (42%)
VACCINATED (BREAKTHROUGH CASE)	161 (54%)	11 (58%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-100 (67)	55-91 (66)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	19-99 (73)	67-101 (89)

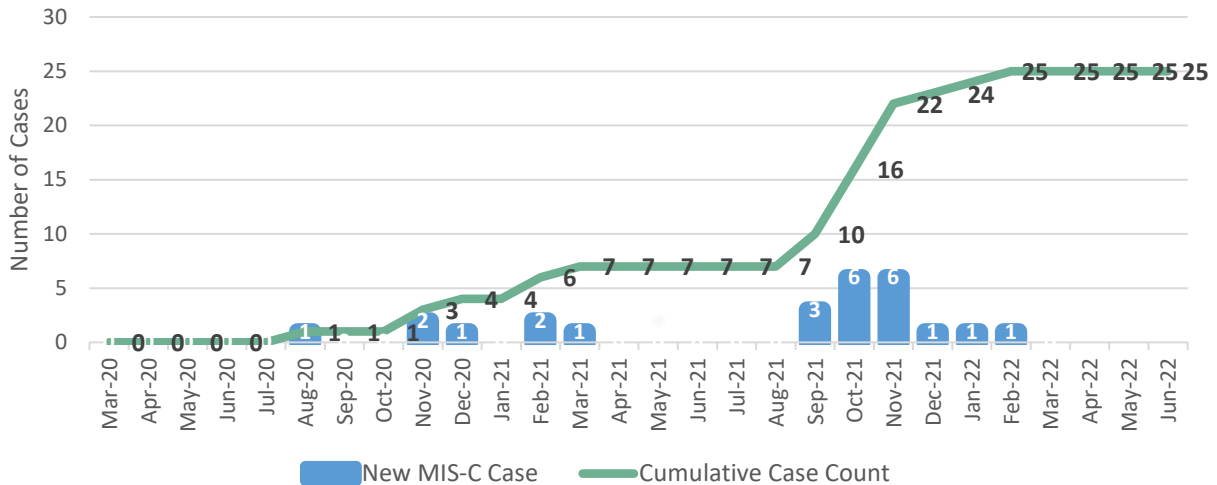
[†]The analysis of hospitalizations and deaths by vaccination status does not include data on booster doses. Booster doses are recommended by the CDC and have been shown to improve protection against hospitalization and death from COVID-19¹.

¹ CDC – COVID Data Tracker – Rates of COVID-19 Cases and Deaths by Vaccination Status. <https://covid.cdc.gov/covid-data-tracker/#rates-by-vaccine-status>. June 13, 2022.

Multisystem Inflammatory Syndrome in Children (MIS-C)

As of June 10, 2022, there have been a total of 25 cases of multisystem inflammatory syndrome in children, or MIS-C, reported in Montana. There have been no deaths. Ages range from less than 1 year to 20 years old; median is 9 years. Eleven cases were female, 14 were male. Cases are from 13 counties around Montana. The first case of MIS-C was reported in August 2020; 18 of the 25 cases have been reported since September 2021 (Figure 8).

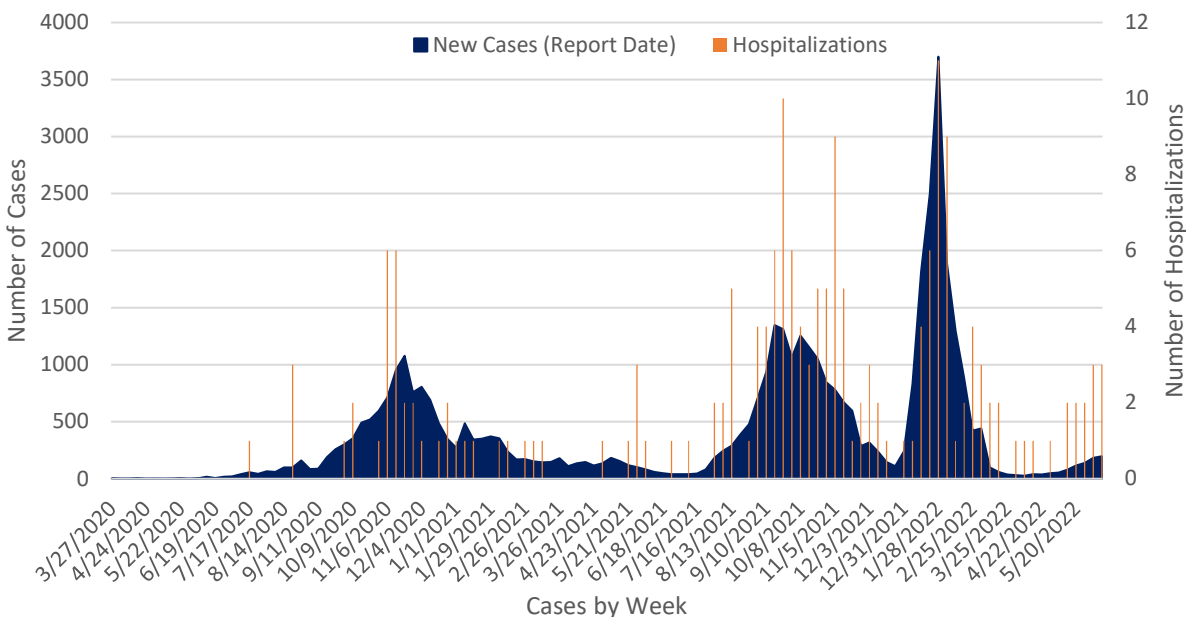
Figure 8. Montana MIS-C Cases by Month of Onset, March 2020 – June 2022



Cases and Hospitalizations Associated with COVID-19 Among Children

To date, there have been 44,008 children <18 years old in Montana diagnosed with COVID-19. Of those, 186 (<1%) have been hospitalized. Case rates among children follow a similar pattern to COVID-19 cases among all age groups (see Figure 1 for comparison) and increased sharply during the recent Omicron surge (Figure 9). There were 198 cases of COVID-19 in children reported during the week of June 4 – June 10, 2022, which is an 8% increase in cases among that age group compared to the previous week. Three hospitalizations in children were reported that week.

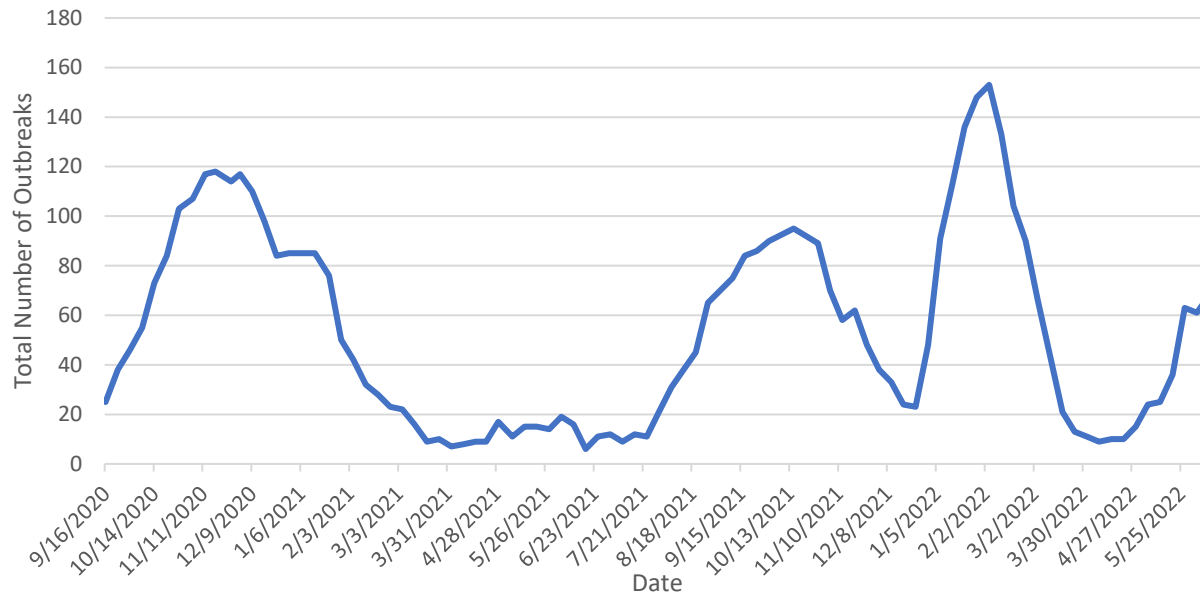
Figure 9. COVID-19 Cases and Hospitalizations by Week, March 2020 – June 10, 2022, Children <18



Assisted Living Facility and Long Term Care Facility Cases and Hospitalizations

There are 71 long-term care facilities (LTCFs) and 211 assisted living facilities (ALFs) in Montana. As of June 10, 2022, there have been 11,548 cases associated with ALFs and LTCFs since the beginning of the pandemic, which comprises 4% of the total number of COVID-19 cases Montana has reported. There have been 652 COVID-related deaths associated with ALFs and LTCFs in Montana, which accounts for 19% of the COVID-related deaths that Montana has reported since the beginning of the pandemic. Facilities that have identified a case of COVID-19 in a resident or staff member within the last 14 days are considered to be actively responding to an outbreak. There are 68 facilities that are currently responding to a COVID outbreak, which is an 11% increase in active outbreaks compared to the previous week (Figure 10).

Figure 10. Montana ALF and LTCF Outbreaks by Week, September 2020-June 2022



Reported COVID-19 Cases by County with Trendline – Montana, past 6 weeks

County	6-May	13-May	20-May	27-May	3-Jun	10-Jun	change from previous week*	Trendline
Beaverhead	1	1	6	11	15	15	0	
Big Horn	7	4	6	9	18	16	-2	
Blaine	4	0	3	12	31	22	-9	
Broadwater	6	1	3	15	8	13	5	
Carbon	6	4	15	8	8	10	2	
Carter	0	1	0	1	1	2	1	
Cascade	16	53	70	71	127	180	53	
Chouteau	0	0	2	1	6	9	3	
Custer	3	1	1	4	15	13	-2	
Daniels	0	0	0	1	5	1	-4	
Dawson	6	2	5	6	6	8	2	
Deer Lodge	3	2	8	17	12	18	6	
Fallon	0	2	0	2	3	1	-2	
Fergus	3	0	2	5	10	20	10	
Flathead	88	116	68	118	135	170	35	
Gallatin	142	222	352	349	368	362	-6	
Garfield	0	1	2	0	4	6	2	
Glacier	19	19	17	36	25	24	-1	
Golden Valley	0	0	0	0	0	2	2	
Granite	0	1	3	7	4	3	-1	
Hill	3	8	12	11	25	14	-11	
Jefferson	5	5	10	16	16	23	7	
Judith Basin	1	1	0	1	2	1	-1	
Lake	23	15	25	36	62	80	18	
Lewis and Clark	35	59	78	150	236	226	-10	
Liberty	0	0	1	2	3	9	6	
Lincoln	8	9	14	17	30	34	4	
Madison	8	5	12	9	15	19	4	
McCone	0	0	0	4	0	0	0	
Meagher	0	5	7	15	8	8	0	

County	6-May	13-May	20-May	27-May	3-Jun	10-Jun	change from previous week*	Trendline
Mineral	0	1	1	4	4	20	16	
Missoula	106	133	202	186	207	219	12	
Musselshell	0	1	2	3	3	3	0	
Park	25	33	43	50	62	50	-12	
Petroleum	0	0	0	0	0	0	0	
Phillips	0	0	1	1	2	3	1	
Pondera	11	6	5	17	8	11	3	
Powder River	2	4	4	1	5	5	0	
Powell	1	1	3	5	13	8	-5	
Prairie	0	0	0	0	2	2	0	
Ravalli	16	16	24	22	38	57	19	
Richland	4	8	3	2	7	19	12	
Roosevelt	1	0	4	3	6	14	8	
Rosebud	2	1	5	6	5	10	5	
Sanders	4	3	3	7	9	5	-4	
Sheridan	0	1	0	2	22	11	-11	
Silver Bow	10	15	19	38	31	69	38	
Stillwater	0	0	1	5	8	10	2	
Sweet Grass	1	2	6	1	3	2	-1	
Teton	2	7	2	6	10	4	-6	
Toole	2	5	0	9	2	6	4	
Treasure	0	0	2	1	0	0	0	
Valley	0	2	15	6	8	10	2	
Wheatland	0	0	0	0	1	1	0	
Wibaux	0	1	0	0	1	2	1	
Yellowstone	80	95	123	171	164	190	26	
MONTANA	654	872	1190	1480	1819	2040	221	

*Note: Data are based on the date of report into the Montana Infectious Disease Information System (MIDIS). Underlined numbers in the above table reflect adjusted counts and may include cases diagnosed but not reported in earlier time frames. These adjustments result from local and state data reconciliation efforts, conducted to ensure accurate data.

County name	Eligible population 5+	Dose 1	Dose 2	Dose 3	Fully Immunized	Total Doses Administered	Percent eligible with first dose (5+)	Percent Fully Vaccinated (5+)
BEAVERHEAD	9,091	5,525	4,451	3,001	5,149	12,977	61%	57%
BIG HORN	11,975	8,311	7,187	3,178	7,561	18,676	69%	63%
BLAINE	6,044	3,774	3,166	1,773	3,380	8,713	62%	56%
BROADWATER	6,092	2,398	1,770	1,169	2,014	5,337	39%	33%
CARBON	10,476	5,621	4,825	3,171	5,180	13,617	54%	49%
CARTER	1,141	381	339	193	361	913	33%	32%
CASCADE	76,124	43,442	34,637	21,727	38,747	99,806	57%	51%
CHOUTEAU	5,430	2,241	1,901	1,522	2,088	5,664	41%	38%
CUSTER	10,692	5,406	4,393	2,703	4,906	12,502	51%	46%
DANIELS	1,559	744	654	403	710	1,801	48%	46%
DAWSON	8,071	3,577	2,960	1,946	3,277	8,483	44%	41%
DEER LODGE	8,887	6,419	5,318	4,005	5,900	15,742	72%	66%
FALLON	2,646	1,088	960	532	1,010	2,580	41%	38%
FERGUS	10,495	5,540	4,818	3,358	5,221	13,716	53%	50%
FLATHEAD	99,993	52,539	41,324	27,424	45,671	121,287	53%	46%
GALLATIN	110,900	83,804	64,567	41,435	70,872	189,806	76%	64%
GARFIELD	1,188	318	255	113	298	686	27%	25%
GLACIER	12,447	10,584	7,434	3,881	8,000	21,899	85%	64%
GOLDEN VALLEY	788	394	330	194	362	918	50%	46%
GRANITE	3,218	1,467	1,183	764	1,289	3,414	46%	40%
HILL	14,914	9,982	7,787	4,745	9,186	22,514	67%	62%
JEFFERSON	11,819	6,794	5,784	4,100	6,200	16,678	57%	52%
JUDITH BASIN	1,880	814	697	471	761	1,982	43%	40%
LAKE	29,280	20,285	16,759	11,112	18,009	48,156	69%	62%
LEWIS & CLARK	66,257	45,575	37,351	26,441	40,248	109,367	69%	61%
LIBERTY	2,234	866	738	541	838	2,145	39%	38%
LINCOLN	19,480	9,532	7,747	5,302	8,465	22,581	49%	43%
MADISON	8,589	4,451	3,541	2,556	3,981	10,548	52%	46%
MCCONE	1,562	454	422	268	431	1,144	29%	28%
MEAGHER	1,726	1,014	870	625	956	2,509	59%	55%
MINERAL	4,302	2,643	1,934	1,502	2,403	6,079	61%	56%
MISSOULA	115,881	85,612	71,298	49,616	77,398	206,526	74%	67%
MUSSELSHELL	4,458	1,750	1,425	858	1,626	4,033	39%	36%
PARK	15,969	11,286	8,775	6,075	9,711	26,136	71%	61%
PETROLEUM	483	166	143	92	156	401	34%	32%
PHILLIPS	3,675	1,917	1,473	1,055	1,781	4,445	52%	48%
PONDERA	5,389	3,585	2,806	1,730	3,190	8,121	67%	59%
POWDER RIVER	1,588	507	411	242	469	1,160	32%	30%
POWELL	6,534	4,261	3,186	2,215	3,982	9,662	65%	61%
PRAIRIE	994	471	421	306	446	1,198	47%	45%
RAVALLI	42,972	24,746	19,977	14,990	22,398	59,713	58%	52%
RICHLAND	10,310	4,545	3,595	2,143	4,298	10,283	44%	42%
ROOSEVELT	9,918	5,984	4,496	2,593	5,354	13,073	60%	54%
ROSEBUD	8,160	5,474	4,381	2,602	4,901	12,457	67%	60%
SANDERS	11,641	5,088	4,232	2,777	4,537	12,097	44%	39%
SHERIDAN	3,075	1,948	1,719	1,275	1,852	4,942	63%	60%
SILVER BOW	33,267	23,994	20,580	14,204	21,942	58,778	72%	66%
STILLWATER	9,451	4,384	3,476	2,457	4,034	10,317	46%	43%
SWEET GRASS	3,523	1,716	1,328	974	1,555	4,018	49%	44%
TETON	5,819	3,140	2,221	1,500	2,673	6,861	54%	46%
TOOLE	4,391	2,360	1,785	955	2,209	5,100	54%	50%
TREASURE	623	436	296	194	319	926	70%	51%
VALLEY	6,931	3,435	2,773	2,020	3,244	8,228	50%	47%
WHEATLAND	2,035	812	700	471	755	1,983	40%	37%
WIBAUX	898	362	302	153	311	817	40%	35%
YELLOWSTONE	153,378	93,474	77,814	47,324	84,207	218,612	61%	55%
MONTANA	1,020,663	637,436	515,715	338,976	566,822	1,492,127	62%	56%